

Application Serial No.: 09/684,628
Attorney Docket No.: 5259-04700US01
Supplemental Amendment dated September 29, 2005
Reply to Office Action of February 18, 2005

In the Claims:

Please cancel without prejudice claims 1-12, 14-32, 36, 39, 40, 41, 42-55, 56, 59-67, and 69.

The current status of the claims follows:

Listing of Claims:

1-69. (Canceled).

70. (Allowed) A connector, comprising:

a body;

a first opening in the body;

a second opening in the body; and

a cam system positioned in a cam system opening in the body, wherein the cam system is in communication with the first opening, and wherein the cam system is configured to extend an engager into the first opening; wherein the longitudinal axis of the cam system is angled at an angle between about 40° and about 90° with respect to the longitudinal axis of the body.

71. (Allowed) The connector of claim 70, wherein the cam system opening is positioned between the first opening and the second opening of the body.

72. (Allowed) The connector of claim 71, wherein a distance between a center of an elongated member positioned in the first opening and a center of an elongated member positioned in the second opening is greater than about 15 millimeters.

73. (Allowed) The connector of claim 71, wherein a distance between a center of an elongated member positioned in the first opening and a center of an elongated member positioned in the second opening is less than about 45 millimeters.

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74. (Allowed) The connector of claim 70, wherein the cam system opening is positioned so that the cam system is not located between the first opening and the second opening.

75. (Allowed) The connector of claim 74, wherein a distance between a center of an elongated member positioned in the first opening and a center of an elongated member positioned in the second opening is greater than about 5 millimeters.

76. (Allowed) The connector of claim 74, wherein a distance between a center of an elongated member positioned in the first opening and a center of an elongated member positioned in the second opening is less than about 30 millimeters.

77. (Allowed) The connector of claim 70, wherein a longitudinal axis of the cam system is located substantially perpendicular to a longitudinal axis of the body.

78. (Allowed) The connector of claim 70, wherein a longitudinal axis of the cam system is angulated within the body at a non-perpendicular angle relative to a longitudinal axis of the body.

79. (Canceled)

80. (Allowed) The connector of claim 70, wherein the longitudinal axis of the cam system is angled at an angle between about 60° and about 90° with respect to the longitudinal axis of the body.

81. (Allowed) The connector of claim 70, wherein the engaging extends into the first opening when the cam system is rotated, and wherein a rotation range of the cam system is limited.

82. (Allowed) The connector of claim 81, wherein the rotation range of the cam system is limited to less than about 360°.

83. (Allowed) The connector of claim 81, wherein the rotation range of the cam system is limited to less than about 180°.

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84. (Allowed) The connector of claim 81, wherein the rotation range of the cam system is limited to less than about 90°.

85. (Canceled).

86. (Allowed) The connector of claim 70, further comprising a visual indicator that informs a user that the cam system is engaged.

87. (Allowed) The connector of claim 86, further comprising a drive tool that activates the cam system, and wherein the visual indicator is a position of a handle of a drive tool relative to a position of the elongated member.

88. (Allowed) The connector of claim 70, wherein the body comprises a first section configured to move relative to a second section, and further comprising a fastener configured to inhibit movement of the first section relative to the second section.

89. (Allowed) The connector of claim 70 wherein the connector is a transverse connector of a bone stabilization system.

90. (Allowed) The connector of claim 70, wherein the connector is a transverse connector of a spinal stabilization system.

91. (Allowed) A bone stabilization system, comprising:
a first elongated member coupled to bone by a first fixation element;
a second elongated member positioned adjacent to the first elongated member and coupled to bone by a second fixation element; and
a connector comprising a first opening configured to accept the first elongated member, wherein the connector is coupled to the first elongated member by a cam system positioned in a cam system opening in the connector, the connector comprising a first section and a second section,

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wherein a position of the first section is adjustable relative to the second section, and wherein a fastening system inhibits movement of the first section relative to the second section during use, the fastening system comprising a collet and a collar, and wherein the collar is friction locked to the collet to inhibit movement of the first section relative to the second section.

92. (Allowed) The system of claim 91, wherein the connector further comprises an engagement system configured to couple the connector to the second elongated member.

93. (Allowed) The system of claim 92, wherein the engagement system comprises a cam system.

94. (Allowed) The system of claim 91, wherein the connector further comprises an engagement system configured to couple the connector to the second fixation element.

95. (Allowed) The system of claim 91, wherein the first elongated member and the second elongated member are portions of a unitary, bent and contoured member.

96. (Allowed) The system of claim 91, wherein the connector has a substantially fixed length.

97. (Allowed) The system of claim 96, wherein the length of the connector may be adjusted by bending the connector.

98. (Allowed) The system of claim 97, wherein a body of the connector includes an indentation to facilitate bending the connector.

99-285. (Canceled).

286. (Allowed) A transverse connector comprising:

a body comprising a first section and a second section, wherein a position of the first section is adjustable relative to the second section, and further comprising a fastening system configured to fix the position of the first section relative to the second section during use, the fastening system

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comprising a collet and a collar, and wherein the collar is compressed onto the collet to fix the position of the first section relative to the second section;

a first opening in the body configured to accept an elongated member;

a cam system positioned in a cam system opening in the body, wherein the cam system is in communication with the first opening; and

an engager configured to extend into the first opening to couple the elongated member to the body when the cam system is activated.